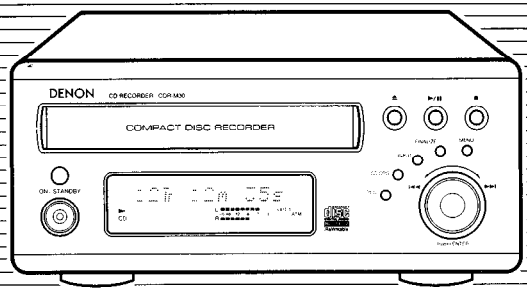
DENON

CD RECORDER

CDR-M30

OPERATING INSTRUCTIONS
BEDIENUNGSANLEITUNG
MODE D'EMPLOI
ISTRUZIONI PER L'USO
INSTRUCCIONES DE OPERACION
GEBRUIKSAANWIJZING
BRUKSANVISNING
INSTRUÇÕES DE OPERAÇÃO

COMPACT disc DIGITAL AUDIO Recordable ReWritable



- **DECLARATION OF CONFORMITY**
  We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards:
  EN60065, EN55013, EN55020, EN61000-3-2 and EN61000-3-3.
  Following the provisions of 73/23/EEC, 89/336/EEC and 93/68/EEC Directive.
- **ÜBEREINSTIMMUNGSERKLÄRUNG**
  Wir erklären unter unserer Verantwortung, daß dieses Produkt, auf das sich diese Erklärung bezieht, den folgenden Standards entspricht:
  EN60065, EN55013, EN55020, EN61000-3-2 und EN61000-3-3.
  Entspricht den Verordnungen der Direktive 73/23/EEC, 89/336/EEC und 93/68/EEC.
- **DECLARATION DE CONFORMITE**
  Nous déclarons sous notre seule responsabilité que l'appareil, auquel se réfère cette déclaration, est conforme aux standards suivants:
  EN60065, EN55013, EN55020, EN61000-3-2 et EN61000-3-3.
  D'après les dispositions de la Directive 73/23/EEC, 89/336/EEC et 93/68/EEC.
- **DICHIARAZIONE DI CONFORMITÀ**
  Dichiariamo con piena responsabilità che questo prodotto, al quale la nostra dichiarazione si riferisce, è conforme alle seguenti normative:
  EN60065, EN55013, EN55020, EN61000-3-2 e EN61000-3-3.
  In conformità con le condizioni delle direttive 73/23/EEC, 89/336/EEC e 93/68/EEC.
  QUESTO PRODOTTO E' CONFORME
  AL D.M. 28/08/95 N. 548
- **DECLARACIÓN DE CONFORMIDAD**
  Declaramos bajo nuestra exclusiva responsabilidad que este producto al que hace referencia esta declaración, está conforme con los siguientes estándares:
  EN60065, EN55013, EN55020, EN61000-3-2 y EN61000-3-3.
  Siguiendo las provisiones de las Directivas 73/23/EEC, 89/336/EEC y 93/68/EEC.
- **EENVORMIGHEIDSVERKLARING**
  Wij verklaren uitsluitend op onze verantwoordelijkheid dat dit produkt, waarop deze verklaring betrekking heeft, in overeenstemming is met de volgende normen:
  EN60065, EN55013, EN55020, EN61000-3-2 en EN61000-3-3.
  Volgens de bepalingen van de Richtlijnen 73/23/EEC, 89/336/EEC en 93/68/EEC.
- **ÖVERENSSTÄMMELSESINTYG**
  Härmed intygas helt på eget ansvar att denna produkt, vilken detta intyg avser, uppfyller följande standarder:
  EN60065, EN55013, EN55020, EN61000-3-2 och EN61000-3-3.
  Enligt stadgarna i direktiv 73/23/EEC, 89/336/EEC och 93/68/EEC.
- **DECLARAÇÃO DE CONFORMIDADE**
  Declaramos sob nossa exclusiva responsabilidade que este produto, ao qual esta declaração corresponde, está em conformidade com as seguintes normas:
  EN60065, EN55013, EN55020, EN61000-3-2 e EN61000-3-3.
  De acordo com o estabelecido nas Directivas 73/23/EEC, 89/336/EEC e 93/68/EEC.

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CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: **TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: **TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numerique de la classe B respecte toutes les exigences du Réglement sur le materiel brouilleur du Canada.

- **FOR U.S.A. & CANADA MODEL ONLY**

CAUTION

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

- **POUR LES MODELES AMERICAINS ET CANADIENS UNIQUEMENT**

ATTENTION

POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

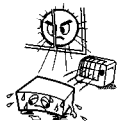
ADVARSEL: **USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLING.**

VAROITUS! **LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.**

VARNING- **OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERATS, KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.**

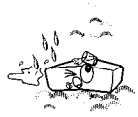
"CLASS 1
LASER PRODUCT"

NOTE ON USE / HINWEISE ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L'UTILISATION / NOTE SULL'USO / NOTAS SOBRE EL USO / ALVORENS TE GEBRUIKEN / OBSERVERA / OBSERVAÇÕES QUANTO AO USO

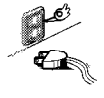


- Avoid high temperatures.
  Allow for sufficient heat dispersion when installed on a rack.
- Vermeiden Sie hohe Temperaturen.
  Beachten Sie, daß eine ausreichend Luftzirkulation gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird.
- Eviter des températures élevees.
  Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère.
- Evitate di esporre l'unita a temperature alte.
  Assicuratevi che ci sia un'adeguata dispersione del calore quando installate l'unita in un mobile per componenti audio.
- Evite altas temperaturas.
  Permite la suficiente dispersión del calor cuando está instalado en la consola.
- Vermijd hoge temperaturen.
  Zorg voor een degelijk hitteafvoer indien het apparaat op een rek wordt geplaatst.
- Undvik höga temperaturer
  Se till att det finns möjlighet till god värmeavledning vid montering i ett rack.
- Evite temperaturas altas.
  Conceda suficiente dispersão de calor quando o equipamento for instalado numa prateleira.

- Handle the power cord carefully.
  Hold the plug when unplugging the cord.
- Gehen Sie vorsichtig mit dem Netzkabel um.
  Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen.
- Manipuler le cordon d'alimentation avec précaution.
  Tenir la prise lors du débranchement du cordon.
- Maneggiate il filo di alimentazione con cure.
  Agite per la spina quando scollegate il cavo dalla presa.
- Maneje el cordon de energia con cuidado.
  Sostenga el enchufe cuando desconecte el cordon de energia.
- Hanteer het netsnoer voorzichtig.
  Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld.
- Hantera nätkabeln varsamt.
  Håll i kabeln när den kopplas från eluttaget.
- Manuseie com cuidado o fio condutor de energia.
  Segure a tomada ao desconectar o fio.



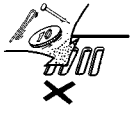
- Keep the set free from moisture, water, and dust.
- Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern.
- Proteger l'appareil contre l'humidité, l'eau et lapoussière.
- Tenete l'unita lontana dall'umidita, dall'acqua e dalla polvere.
- Mantenga el equipo libre de humedad, agua y polvo.
- Laat geen vochtigheid, water of stof in het apparaat binnendringen.
- Utsätt inte apparaten för fukt, vatten och damm.
- Mantenha o aparelho livre de qualquer umidade, água ou poeira.



- Unplug the power cord when not using the set for long periods of time.
- Wenn das Gerät eine längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker.
- Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilise pendant de longues periodes.
- Disinnestate il filo di alimentazione quando avete l'intenzione di non usare il filo di alimentazione per un lungo periodo di tempo.
- Desconecte el cordon de energia cuando no utilice el equipo por mucho tiempo.
- Neem altijd het netsnoer uit het stopkontakt wanneer het apparaat gedurende een lange periode niet wordt gebruikt.
- Koppla ur nätkabeln om apparaten inte kommer att användas i lang tid.
- Desligue o fio condutor de força quando o aparelho não tiver que ser usado por um longo período.

Indoor sets with ventilation holes

- Do not obstruct the ventilation holes.
- Die Belüftungsöffnungen dürfen nicht verdeckt werden.
- Ne pas obstruer les trous d'aeration.
- Non coprite i fori di ventilazione.
- No obstruya los orificios de ventilación.
- De ventilatieopeningen mogen niet worden geblokkeerd.
- Täpp inte till ventilationsöppningarna.
- Não obstrua os orificios de ventilação.



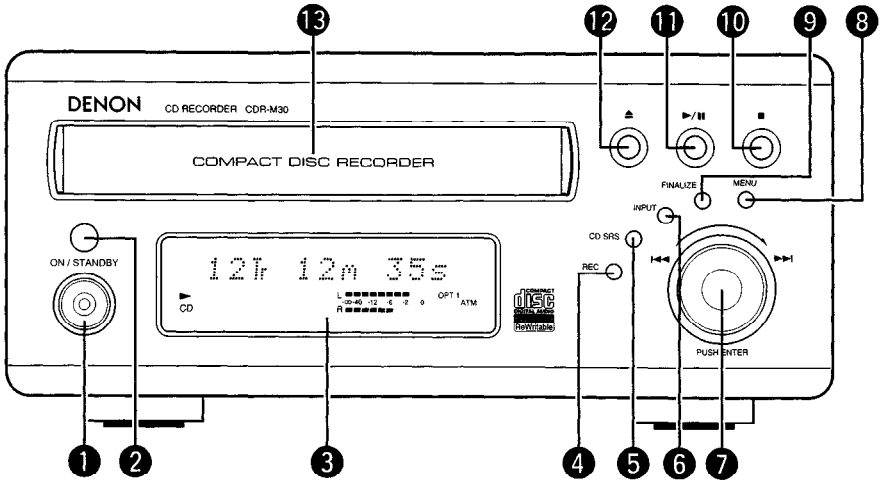
- Do not let foreign objects in the set.
- Keine fremden Gegenstände in das Gerät kommen lassen.
- Ne pas laisser des objets etrangers dans l'appareil.
- E' importante che nessun oggetto e inserito all'interno dell'unità.
- No deje objetos extraños dentro del equipo.
- Laat geen vreemde voorwerpen in dit apparaat vallen.
- Se till att främmande föremål inte tränger in i apparaten.
- Não deixe objetos estranhos no aparelho.

- Do not let insecticides, benzene, and thinner come in contact with the set.
- Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen.
- Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil.
- Assicuratevi che l'unita non venga in contatto con insetticidi, benzolo o solventi.
- No permita el contacto de insecticidas, gasolina y diluventes con el equipo.
- Laat geen insektenverdelgende middelen, benzine of verfverdunner met dit apparaat in kontakt komen.
- Se till att inte insektsmedel ba spraybruk bensen och thinner kommer i kontakt med apparatens höljе.
- Não permita que inseticidas, benzina e dissolvente entrem em contacto com o aparelho.

- Never disassemble or modify the set in any way.
- Versuchen Sie niemals das Gerät auseinander zu nehmen oder auf jegliche Art zu verändern.
- Ne jamais demonter ou modifier l'appareil d'une maniere ou d'une autre.
- Non smontate mai, ne modificate l'unita in nessun modo.
- Nunca desarme o modifique el equipo de ninguna manera.
- Noot dit apparaat dem ontleden of op andere wijze modificeren.
- Ta inte isär apparaten och försök inte bygga om den.
- Nunca desmonte ou modifique o aparelho de alguma forma.

FRONT PANEL
FRONTPLATTE
PANNEAU AVANT
PANNELLO FRONTALE
TABLERO FRONTAL
VOORPANEEL
FRONT PANELEN
PAINEL FRONTAL

See ENGLISH Page 7.
Sehen Sie DEUTSCH Seite 28.
Voir FRANÇAIS Page 48.
Fate riferimento alla sezione ITALIANO alla pagina 68.
Consulte la página 88 para ESPAÑOL.
Zie NEDERLANDS bladzijde 108.
Se SVENSKA sid 128.
Veja em PORTUGUÊS página 148.



REAR PANEL
RÜCKWAND
PANNEAU ARRIERE
IL PANNELLO POSTERIORE
PANEL TRASERO
ACHTERPANEEL
BAKSIDAN
PAINEL TRAZEIRO

See ENGLISH Page 7.
Sehen Sie DEUTSCH Seite 28.
Voir FRANÇAIS Page 48.
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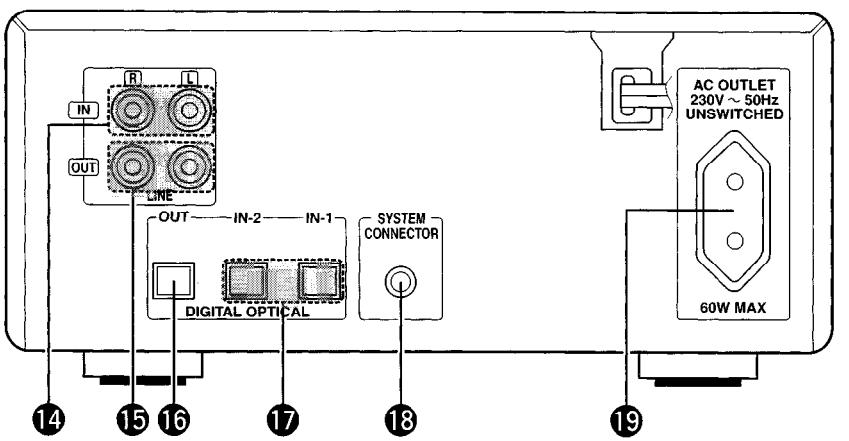

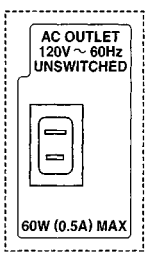

for U.S.A. & CANADA model

- As an aid to better understanding the operation method, the illustrations used in this manual may differ from the actual system.
- Als Hilfestellung zum besseren Verständnis der Betriebsmethode, erlauben wir uns den Hinweis, daß sich die Abbildungen in dieser Bedienungsanleitung leicht von dem aktuellen System unterscheiden.
- Pour faciliter la compréhension de la méthode de fonctionnement, les illustrations utilisées dans ce manuel peuvent être différentes de celles de la chaîne reelle.
- Per rendere la spiegazione del metodo operativo più facile, le illustrazioni usate in questo libretto delle istruzioni possono differire dal sistema stesso.
- Como ayuda a un mejor entendimiento del metodo de funcionamiento, las ilustraciones utilizadas en este manual puede diferir del sistema real.
- Als bijkomende hulp om de bedieningsmethode beter te begrijpen, is het mogelijk dat de afbeeldingen die in deze handleiding zijn gebruikt verschillen van het eigenlijke systeem.
- Illustrationerna i bruksanvisningen hjälper dig förstå de olika funktionerna. Studera dem noga. (Vissa illustrationer kan skilja sig lite grann från din apparat.
- Como ajuda para uma melhor compreensão do metodo de funcionamento, as ilustracões utilizadas neste manual podem diferir do verdadeiro sistema.

SAFETY INSTRUCTIONS

1. Read Instructions – All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions – The safety and operating instructions should be retained for future reference.
3. Heed Warnings – All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions – All operating and use instructions should be followed.
5. Water and Moisture – The appliance should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
6. Carts and Stands – The appliance should be used only with a cart or stand that is recommended by the manufacturer.

6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

7. Wall or Ceiling Mounting – The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. Ventilation – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. Heat – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. Power Sources – The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. Grounding or Polarization – Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

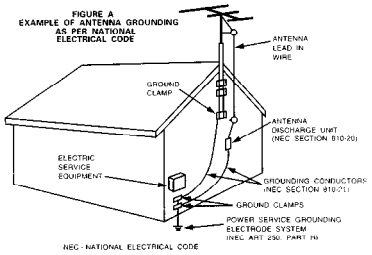
FIGURE A
EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE
ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)
NEC - NATIONAL ELECTRICAL CODE

12. Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
14. Cleaning – The appliance should be cleaned only as recommended by the manufacturer.
15. Power Lines – An outdoor antenna should be located away from power lines.
16. Outdoor Antenna Grounding – If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.
17. Nonuse Periods – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
18. Object and Liquid Entry – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
19. Damage Requiring Service – The appliance should be serviced by qualified service personnel when:
    A. The power-supply cord or the plug has been damaged; or
    B. Objects have fallen, or liquid has been spilled into the appliance; or
    C. The appliance has been exposed to rain; or
    D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
    E. The appliance has been dropped, or the enclosure damaged.
20. Servicing – The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

IMPORTANT TO SAFETY

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

1. **Handle the power supply cord carefully**
   Do not damage or deform the power supply cord. If it is damaged or deformed, it may cause electric shock or malfunction when used. When removing from wall outlet, be sure to remove by holding the plug attachment and not by pulling the cord.
2. **Do not open the top cover**
   In order to prevent electric shock, do not open the top cover.
   If problems occur, contact your DENON DEALER.
3. **Do not place anything inside**
   Do not place metal objects or spill liquid inside the CD recorder.
   Electric shock or malfunction may result.

Please, record and retain the Model name and serial number of your set shown on the rating label.

Model No. CDR-M30 Serial No. _____

NOTE:
This CD recorder uses the semiconductor laser. To allow you to enjoy music at a stable operation, it is recommended to use this in a room of 10°C (50°F) — 35°C (95°F).

- **Place of installation**
  To ensure sufficient ventilation, leave a space of at least 10 cm between the front, sides and back of the unit and walls or other objects which may obstruct ventilation.

CAUTION:
USE OF CONTROLS OR ADJUSTMENTS OR REFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

THE CD RECORDER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.

Thank you for purchasing this DENON CD recorder. Please read the operating instructions thoroughly in order to acquaint yourself with the CD recorder and achieve maximum satisfaction from it.

Please check to make sure the following items are included with the main unit in the carton:

(1) Operating instructions 1
(2) RCA pin-plug cord 2
(3) System connector cable 1
(4) Optical cable 1
(5) Service staion list 1

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1 FEATURES

1. **Clear sound quality**
   Digital recording provides clear playback sound.
2. **Abundant playback functions**
   Programmed playback, random playback, all track repeat, single track repeat, etc.
3. **Text Entry and Display Function**
   The album title, and the track title for individual tracks can be entered and displayed for recorded CD-R/RW discs.
4. **Sampling rate converter**
   Sources with different sampling frequencies, such as DATs and satellite broadcasts (32 kHz and 48 kHz), can be recorded digitally.
5. **Convenient system functions**
   The CDR-M30 is equipped for system functions allowing easy synchronized recording, and auto function and auto power on operations when used in combination with the D-M30/M50 series. In addition, system units can be operated using the system remote control unit included with the CD receiver unit (UD-M30/M50).

NOTES:
- No remote control unit is included with this set (CDR-M30). When system connections are made, the CDR-M30 can be controlled with the system remote control unit included with the CD receiver (UD-M30/M50).
- If only the CDR-M30 is purchased, also purchase a separately sold remote control unit (RC-279) if you wish to control the CDR-M30 remotely.

2 CAUTIONS ON HANDLING

Installation
Do not place a TV set (even a small one) or other object on top of the CDR-M30.

When receiving FM, AM and TV broadcasts
If the CDR-M30's power is turned on while receiving FM, AM or TV broadcasts, there may be noise in the sound or stripes on the TV picture. Keep the CDR-M30's power turned off when not using it.
The CDR-M30 uses digital technology, if an FM tuner is placed nearby, it may cause adverse effects, such as noise in the tuner's antenna cable, etc.
Be sure to use coaxial cables to connect the antenna and the tuner's antenna terminal.

When not using the CDR-M30

■ **Under normal circumstances**
- Always remove the disc and turn the power off.
- When leaving home for long periods of times such as for trips, be sure to unplug the power cord.

■ **When moving the CDR-M30**
- Do not subject the CDR-M30 to shocks.
- Always check that the disc that been removed and the connection cords disconnected before moving the CDR-M30.

3 ABOUT CD-R/RW DISCS

Discs that Can Be Used with this Unit

CD-R Discs and CD-RW Discs

Be sure to use discs that bear either of the following marks when recording with this unit.

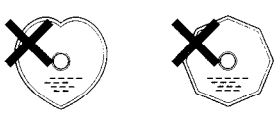
- **CD-R Discs**
- **CD-RW Discs**

and an indication such as "FOR CONSUMER", "FOR CONSUMER USE" or "FOR MUSIC USE ONLY".

* Recording will not be possible with discs that do not bear the aforementioned marks.

CD Discs

This unit uses CDs (optical digital audio discs) which bear the mark located at the right.
Note that specially shaped CDs, for example, heart shaped or hexagonal cannot be played. Do not attempt to use such CDs since doing so may cause breakdown of this unit.



CD Text Discs

This unit can display text information (album title, track title) on the display when playing CD text discs which contain text information in English category.
The CD text disc includes the mark shown at the right.

NOTE:
- This unit can provide a text display of the following types of characters. Other types of characters will result in "—" being displayed.
  - Alphabet
    ABCDEFGHIJKLMNOPQRSTUVWXYZ
    abcdefghijklmnopqrstuvwxyz
  - Numbers
    0123456789
  - Symbols
    _!"#$%&'()*+,-./:;<=>?@[¥]_`{|}~ SPACE

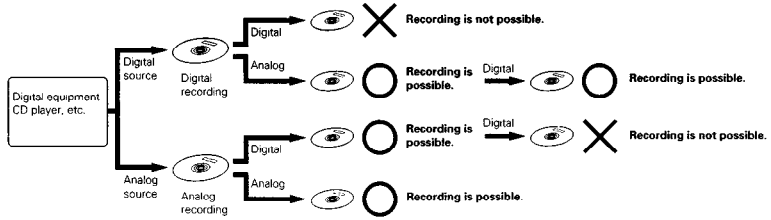
Methods of Recording to Disc

■ **CD-R Discs**
- CD-R discs incorporate a pigment layer for recording. When exposed to the recording laser, a change in form occurs at the boundary of this layer and the plastic layer resulting in the recording of the signal. The recorded information is maintained until the end of the life of the disc.
- After recording, finalized discs can be played on ordinary CD players.

■ **CD-RW Discs**
- CD-RW discs incorporate a phase change layer. The recording process causes this layer to change from a crystal (reflective) condition to an amorphous (non-crystal) condition.
- Recorded information can be erased from CD-RW discs. Deletion can take the form of deleting all of the disc tracks or only the specified tracks working back from the last track of the disc.
- Finalized CD-RW discs can be played on CD players designed for use with CD-RW discs as well as on CD recorders.

Digital Copies

A CD-R/RW disc onto which has been recorded using the digital input cannot be further digitally recorded (i.e., copied) onto a separate CD-R/RW disc or MD, etc.. This is a standard established by the SCMS (Serial Copy Management System).

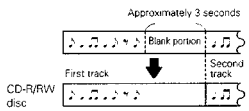


Track Numbers: Auto Track Function

■ **Recording from a digital input**
- When performing digital recording of a CD, track numbers are updated when the first sound is detected after the track switches.
- When making a digital recording from a MD, a track number that is the same as the original track number will automatically be associated.
- When recording from a satellite broadcasts or other digital equipment, the detection of a blank portion of about 3 seconds or longer, the same as when making recordings with an analog input, will result in the operation of the auto track function and the automatic association of the track number.
- When recording from a DAT, track numbers are given when track switching is detected using the start IDs.
  - The track number might not switch correctly when there is a lot of noise in the blank portion between tracks.
  - The track number might change when the signal level is very low within the track.

■ **Recording from an analog input**
Track numbers will automatically be associated when a blank portion of about 3 seconds or longer is detected.
- When the input signal is affected by noise or there is some other interference, the track number might not change at the correct position.
- The track number might change when the signal level is very low within the track.

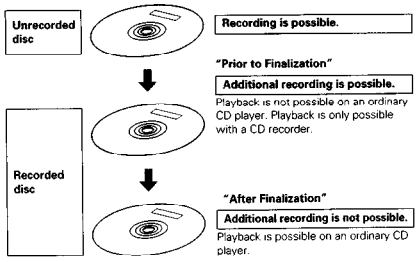
★ The on/off setting of the auto track function is possible in manual recording. (See "Analog recording" on Page 13.)



NOTES:
- When recording an analog source that contains a very low level signal within the track, or a digital source other than CD/MD/DAT, switch off the auto track function then make a manual recording and associate the track numbers manually.
- When the recording level is set too low while recording an analog source or a digital source other than MD/DAT, the track numbers might not be associated at the correct position. Please set a suitable recording level. (See "11 RECORDING" on Page 13,14.)

Finalization Processing of CD-R Discs

After the recording of a CD-R disc is completed, finalization processing is required to enable it to be played on an ordinary CD player.


Unrecorded disc
Recording is possible.
"Prior to Finalization"
Additional recording is possible.
Playback is not possible on an ordinary CD player. Playback is only possible with a CD recorder.
Recorded disc
"After Finalization"
Additional recording is not possible.
Playback is possible on an ordinary CD player.

NOTES:
- Once a CD-R disc has been finalized, additional recording will no longer be possible.
- The information that has been recorded to a CD-R disc cannot be erased.

Finalization Processing of CD-RW Discs

CD-RW discs cannot be played on an ordinary CD player, even with finalization processing. Playback is possible only on CD recorders or players suited for use with CD-RW discs.They can only be played on a player that is suited for use with CD-RW discs. Also note that CD-RW discs can be erased after being finalized.

4 DISC HANDLING AND PRECAUTIONS

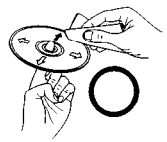
Disc Handling

Avoid touching the surface of the disc when inserting or removing it.

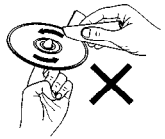
Be careful not to get fingerprints on the signal recording surface.

Disc Cleaning

- When the disc has become marked with fingerprints or dirt, wipe it clean before use. The dirt will not affect the signal of the disc, but the sound quality may drop and there may be breaks in the sound. Note that when the surface of a CD-R/RW disc is dirty, it may not record properly.
- To wipe the disc clean, use one of the disc cleaning sets available on the market or a soft cloth.



Lightly wipe in the direction from centre to outside.

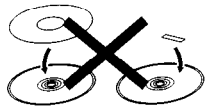


Do not wipe in a circular manner.

Storage Precautions

- Be sure to eject the disc after playing.
- Always return the disc to its case to avoid dust, scratches, and misshaping.
- Do not leave the disc in the following places:
  1. Where it will be exposed to direct sunlight for long periods.
  2. Where there is a lot of dampness and dust.
  3. Where it will be exposed to heat such as from a heater.

NOTES:
- Do not attach commercially available disc labels or other seals on the disc. Doing so may make it impossible to record or play the disc properly.



- Do not use record spray or static electricity prevention products. Do not use benzene, thinner, or other volatile chemicals.

Handling Precautions

- Do not allow fingerprints, oil, or dirt to adhere.
- Be careful not to scratch the surface, especially when removing or returning the disc to the case.
- Do not bend the disc.
- Do not heat the disc.
- Do not enlarge the center hole.
- Do not write on the label surface (i.e., printed side) with a ballpoint pen or pencil.
- Water droplets may form on the surface of the disc when it is suddenly brought from a cold place such as outdoors to a warm place. If this happens, do not dry the disc with a hair dryer.

Precautions When Loading Discs

- Only load one disc. Loading two or more discs in a layer will cause breakdown and may also scratch the discs.
- Discs of the 8 cm size should be carefully aligned with the recessed disc guide area and loaded without the use of an adapter. If not properly loaded, the disc may fall out or the disc holder may cease to open.
- Be careful not to get your finger caught when the disc holder is closing.
- Do not place anything other than a disc on the disc tray.
- Do not use discs that are cracked, misshapen, or have been repaired with an adhesive, etc.
- Do not use discs that have adhesive coming out from cellophane tape or the label of a rental disc, or adhesive remaining after removal of the label. Use of a disc in this condition may result in the disc not being ejected or in breakdown.

5 RESTRICTIONS RELATED TO THE CD-R/RW STANDARDS

★ Standards concerned with CD recorder playback have been established based on the existing standards of CD players; however, for recording, the method differs from that used with existing cassette decks and MD recorders, etc. In view of this, please gain a good understanding of the following restrictions associated with CD-R/RW discs and enjoy the medium.

Restrictions of Audio CD-R/RW Discs

- Only audio CD R/RW discs can be recorded with this unit. "Not AudioDisc" will be displayed when a disc other than one for use with audio such as a CD-R/RW disc for use with a personal computer or another type of disc is loaded. (See "Discs that Can Be Used with this unit" on Page 5.)
- CD-R discs can be recorded to only once. The recorded information cannot be erased.
- The recorded information of CD-RW discs can be erased.
- Recording mistakes made with CD-R discs cannot be erased; therefore, it is recommended that a CD-RW disc be used until you are accustomed to the recording operation.

Restrictions in Recording with this Unit

- The recording operation procedure is the same for CD-R discs and CD-RW discs.
- When making additional recording to a previously recorded disc, the end of the last track is detected and recording is started from there.
- The record standby mode cannot be set for CD-R/RW discs with a recordable time of about 8 seconds or less remaining. "Disc Full" will be displayed at this time.
- Songs with a recording time of less than 4 seconds cannot be recorded.
- A maximum of 99 tracks can be recorded to one CD-R/RW disc. When the recording reaches the 99th track, "Disc Full" is displayed and recordings beyond this track will not be possible.
- Digital recording is not possible from CD-R/RW discs onto which have been digitally recorded, normal is it possible from MD or DAT, etc. When a digital recording is attempted from such sources, "Copy Prohibit" is displayed. To record from these digital sources, make the recording from the analog input. (See "Digital Copies" on Page 5.)
- This unit cannot record CD-ROM and other non-audio signal sources. When an attempt is made to record from such sources, "Not Audio" is displayed.
- When a recording is made from a disc that includes data other than audio signals such as CD graphics or CD-TEXT, only the audio signal is recorded; other data is not recorded.
- DVD (Dolby Digital, DTS, and other compressed audio signals) cannot be recorded.

Compatibility with Other CD Players and Discs

- Finalization processing on a CD-R disc that has been recorded with this unit will permit that disc to be played on ordinary CD player. (See "Finalization Processing of CD-R Discs" on Page 6.)
- Finalization processing on a CD-RW disc that has been recorded with this unit will permit that disc to be played only on a CD player designed to be used with CD-RW discs or on another CD recorder. (See "Finalization Processing of CD-RW Discs" on Page 6.)
- CD-RW discs cannot be played with the UD-M30/M50.

NOTES:
- To assure accurate recording, record with an ambient temperature of 35°C or less.
- Do not obstruct the ventilation holes on the top and side.
- Recording may stop if the unit is subject to shocks during recording. If recording stops, it may no longer be possible to use the disc normally.

6 CONNECTIONS

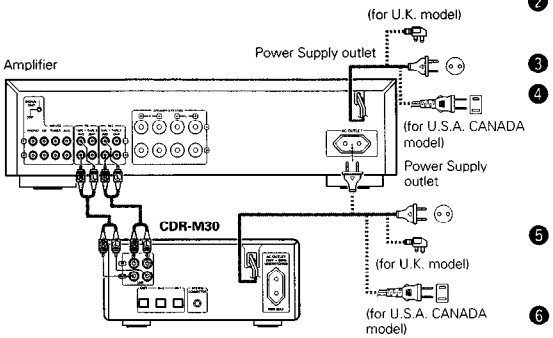
- For system connections with the UD-M30/M50, refer to the connections instructions of the UD-M30/M50.
- The CDR-M30 can also be used by connecting it to a pre-main amplifier other than the UD-M30/M50. In this case, do not make system connections. Doing so may result in malfunction.

Analog Input/Output Jack Connections

- Use the supplied pin plug cable when making connections with the analog input/output jacks.

① **Input:**
Connect the analog input jacks (ANALOG IN) of this unit with the output jacks of the amplifier (LINE OUT or TAPE).

② **Output:**
Connect the analog output jacks (ANALOG OUT) of this unit with the input jacks of the amplifier (LINE IN or TAPE).

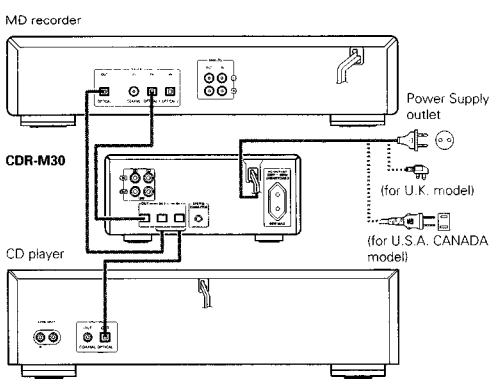


Connection of Digital Input/Output Jacks

- Please use the supplied optical fiber cables when making connections to the digital (OPTICAL) input/output jacks.

① **Input:**
Connections with Playback Equipment such as the CD Players
The digital input jacks of this unit (either DIGITAL IN OPTICAL) should be connected with the digital output jacks of the CD player (OPTICAL).
Up to two pieces of digital playback equipment can be connected.

② **Output:**
Connections with Equipment having a Digital Input such as the MD Recorder
The digital output jacks of this unit (either DIGITAL OUT OPTICAL) should be connected with the digital input jacks of the MD recorder or other equipment (OPTICAL).



- There will not be digital output until TOC Read is completed.
- Digital output may be interrupted momentarily at such times as the start and end of recording; however, this will not affect recording.

NOTES:
- Do not plug the power plug into the power outlet until all connections have been completed.
- Connect the red plug of the pin plug cable into the R (right) jack and the white plug into the L (left) jack.
- Do not make a connection to the PHONO jack of the amplifier. Doing so will lead to breakdown.
- Firmly plug in the power plug. An imperfect connection will cause noise to be generated.
- Bundling the connection cables together with the power cable will cause hum or other noise.
- When the power plug is disconnected from the power outlet, wait about 5 seconds before reinserting.

7 PART NAMES AND FUNCTIONS

❶ **Power operation switch (ON/STANDBY)**
- Press this button once to turn the CD recorder's power on, then press again to set the CD recorder to the standby mode.

❷ **REMOTE SENSOR**
- Point the remote control unit (RC-279) towards this sensor when operating it.

❸ **Display**

❹ **REC (recording) button**
- Press this button to record.
- The recording standby mode is set when the REC button is pressed alone.
- Press the play/pause button (❶ ►/II) while in the recording standby mode to start recording.
- To stop recording or to cancel the recording standby mode, press the stop button (❿ ■).

❺ **CD SRS button (Synchronized Recording System) button**
- Use this button for synchronized recording of CDs. (See Page 22.)

❻ **INPUT button**
- Use this to select the input source for recording.
- The input source cannot be switched during recording. To do so, first set the recording standby or stop mode.

❼ **JOG dial (ENTER) button**
- Use this dial to find the beginning of tracks and for editing.
- Use this dial to input letters when giving titles to tracks on the disc.
- Press the dial to enter editing settings.

❽ **MENU button**
- This button is used when inputting disc and track titles and for such editing operations as CD-RW Disc erasing.

❾ **FINALIZE button**
- Selects finalize mode. (See Page 16.)

❿ **■ (stop) button**
- Press this button to stop playback or recording.
- Press this button to clear the editing operation.

⓫ **►/II (play/pause) button**
- Press this button to start playback or recording.
- Press this button to stop playback or recording temporarily.

⓬ **≜ (open/close) button**
- Opens / Closes disc tray.

⓭ **Disc tray**

⓮ **LINE IN (analog input) jacks**
- When these jacks are connected to the LINE output (LINE OUT) jacks on the tuner-amplifier or the CD receiver, the sound of other components connected to them can be recorded on the CDR-M30. To do so, set the input button (❻ INPUT) to the "Analog" position.

⓯ **LINE OUT (analog output) jacks**
- When these jacks are connected to the LINE input (LINE IN) jacks on the tuner-amplifier or the CD receiver, the sound from the CDR-M30 can be heard through the speakers connected to them.

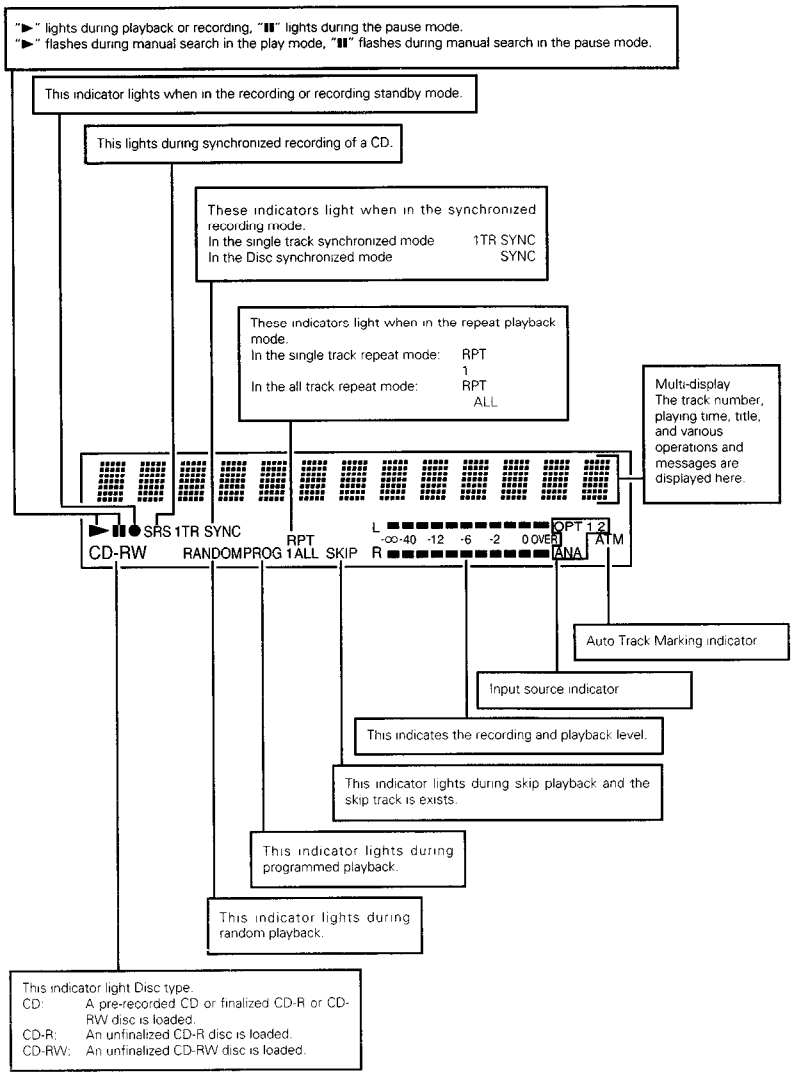
⓰ **DIGITAL OPTICAL OUT (digital output) jack**
- Digital data is output from this jack in the form of optical signals.
- When this jack is connected to the digital input (OPTICAL) jack MD recorder or D/A unit, the sound from the CDR-M30 can be heard over the speakers.

⓱ **DIGITAL OPTICAL IN (digital input) jacks**
- Use this jack to input digital data.
- When connected to the optical digital output jack of a CD player, DAT deck, satellite broadcast tuner or MD recorder, the sound from that unit can be recorded digitally on the CDR-M30. Set the INPUT button ❻ to "Optical 1" when the IN-1 jack is connected, "Optical 2" when the IN-2 jack is connected.

⓲ **SYSTEM CONNECTOR**
- When using the CDR-M30 in combination with the D-M30/M50 series, connect this terminal to the system connector terminal on another unit using the included system connector cable.

⓳ **AC OUTLET**
- Use this when using the CDR-M30 with the D-M30/M50 series. (60 W MAX.)

❸ Display

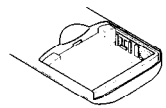

"►" lights during playback or recording, "II" lights during the pause mode.
"►" flashes during manual search in the play mode, "II" flashes during manual search in the pause mode.
This indicator lights when in the recording or recording standby mode.
This lights during synchronized recording of a CD.
These indicators light when in the synchronized recording mode.
In the single track synchronized mode 1TR SYNC
In the Disc synchronized mode SYNC
These indicators light when in the repeat playback mode.
In the single track repeat mode: RPT 1
In the all track repeat mode: RPT ALL
Multi-display
The track number, playing time, title, and various operations and messages are displayed here.
►II● SRS 1TR SYNC
CD-RW RANDOM PROG 1 ALL SKIP
RPT
L
-∞-40 -12 -6 -2 0 OVER
R
OPT 1 2
ANA
ATM
Auto Track Marking indicator
Input source indicator
This indicates the recording and playback level.
This indicator lights during skip playback and the skip track is exists.
This indicator lights during programmed playback.
This indicator lights during random playback.
This indicator light Disc type.
CD: A pre-recorded CD or finalized CD-R or CD-RW disc is loaded.
CD-R: An unfinalized CD-R disc is loaded.
CD-RW: An unfinalized CD-RW disc is loaded.

8 REMOTE CONTROL UNIT

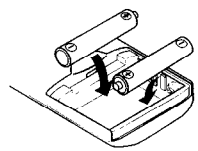
- **No remote control unit is included with this set (CDR-M30). When system connections are made, the CDR-M30 can be controlled with the system remote control unit included with the CD receiver (UD-M30/M50). When using the CD receiver's remote control unit to control the CDR-M30, point the remote control unit at the CD receiver (UD-M30/M50).**
- **If only the CDR-M30 is purchased, also purchase a separately sold remote control unit (RC-279) if you wish to control the CDR-M30 remotely.**

Inserting the batteries

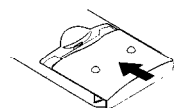
① Remove the remote control unit's back lid.



② Insert the two R03 (AAA) batteries in the battery compartment, in the direction indicated by the marks inside the compartment.



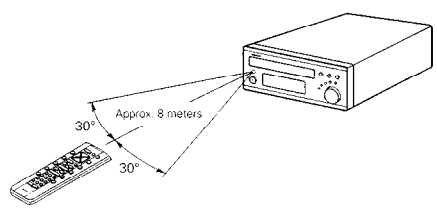
③ Put the back lid back on.



Cautions on batteries

- Use R03 (AAA) batteries in the remote control unit.
- The batteries should be replaced with new ones after approximately one year, though this depends on the frequency with which the remote control unit is used.
- Even if the batteries are less than a year old, replace them with new ones if the remote control unit no longer operates even from a short distance from the main unit.
- The included battery is only for verifying operation. Replace it with a new battery as soon as possible.
- When inserting new batteries, wait about two minutes after removing the old batteries before inserting the new ones.
- Be sure to set the batteries in the proper "⊕" and "⊖" directions, as indicated by the marks in the remote control unit's battery compartment.
- Remove the batteries when not using the remote control unit for long periods of time.
- To avoid explosions and fluid leakage:
  - Do not use one new battery with one old one.
  - Do not use two different types of batteries.
  - Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- If the battery fluid should leak, wipe all the fluid off the battery compartment, then insert new batteries.

Using the remote control unit



- When operating the remote control unit, point it at the main unit as shown in the diagram.
- The remote control unit can be operated from a direct distance of approximately 8 meters from the main unit. This distance will be shortened, however, if there are obstacles or when operated from an angle. (The remote control unit will operate from a horizontal angle of up to about 30°.)

NOTES:

- The remote control unit may not operate if the remote sensor is exposed to direct sunlight or strong artificial light, or if there is an obstacle between it and the remote sensor.
- Do not press buttons on the main unit and on the remote control unit at the same time. Doing so will result in malfunction.

Names and Functions of Remote Control Unit Buttons

- **The CD-recorder related buttons on the system remote control unit included with the UD-M30/M50 are explained below. Buttons shared with other models (▒▒▒) automatically function as CD-recorder control buttons thanks to the auto function utility.**
  Buttons marked " ✻ " are only for the CD-recorder.
- **Buttons not explained here function in the same way as the corresponding buttons on the main unit.**

EDIT button

This functions in the same way as the MENU button on the main unit.

RANDOM button

Press this button to play the track in random order. (See Page 11.)

REPEAT button

Press this button to play a single track or all tracks repeatedly. (See Page 12.)

PROG / DIRECT button

Press this button to switch between the program setting mode and the direct search mode. Normally this is set to the direct search mode. (See Page 11.)

■ (stop) button

✻ **► / II (play/pause) button**

CALL button

Use this button to check the programmed tracks.

1 to 10 (number) buttons

Use these buttons for direct search and programmed playback.

TITLE / CARACTER button

Press this button to switch the time display to the title display. When inputting titles to switch between capital letters, small letters and special letters.

TIME button

- Press this to switch the time display between the elapsed time and the remaining time per track.
- When pressed in the stop mode, the time display switches between the total playing time and the recordable time.

◄◄ and ►► (manual search reverse and forward) buttons

(See Page 10.)

ENTER button

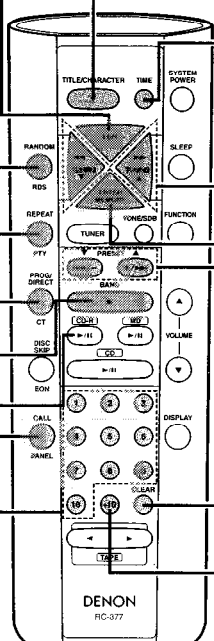
I◄◄ and ►►I (automatic search reverse and forward) buttons

Use this to find the beginning of a track. (See Page 10.)

CLEAR button

+10 button

Use this button to enter track numbers of 11 or over for direct search and programmed playback.

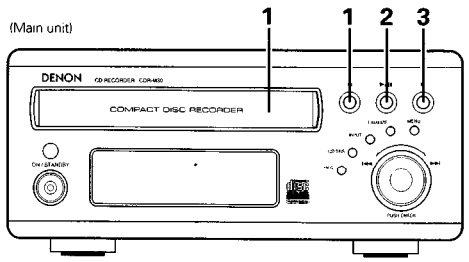


9 NORMAL PLAYBACK

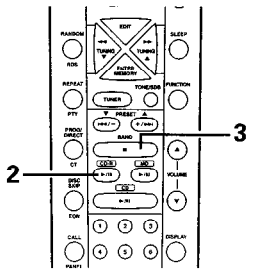
1. Starting playback

First try playing the tracks in order.

(Main unit)



(Remote control unit)



1	Load the disc to be played.
2	Press the ►/II button to start CD play. • "► "lights up and the track number and track time of the track in play appear on the display.

NOTE:
- "No Disc" will be displayed at such times as when a disc is not loaded, the disc cannot be read properly due to scratches or dirt, or the disc is loaded upside down.

2. Stopping playback

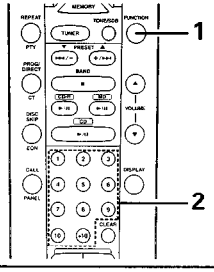
3	Press the ■ (stop) button. • Playback stops. • The stop mode is set automatically once all the tracks on the disc have been played

10 VARIOUS PLAYBACK FUNCTIONS

In addition to normal playback, the CDR-M30 also offers the playback functions described below.

1. Playing a certain track (remote control unit only) ..... **Direct Search**

(Remote control unit)



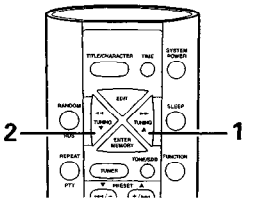
1	Press the function button and select CD-R.

2 Use the number buttons (1 to 10) and the +10 button to input the number of the desired track.
- For example:
  Press button [4] to listen to the 4th track, buttons [+10] and [2] to listen to the 12th track. Playback begins from that track.

2. Finding the desired position while listening to the sound ..... Manual Search
(remote control unit only)

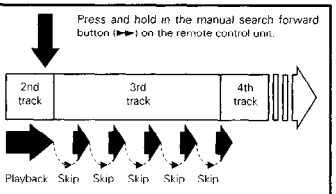
- Use this function to skip rapidly through the disc while listening to the sound. This function comes in handy when you want to find a certain section within a long track.
- The manual search mode is set when one of the manual search buttons (►► and ◄◄) on the remote control unit is pressed and held in during playback. The disc moves slowly at first, then rapidly. Normal playback resumes when the button is released.
- The ► (play) indicator flashes when the manual search operation is started from the play mode, and the ❚❚ (pause) indicator flashes when the manual search operation is started from the pause mode.

(Remote control unit)



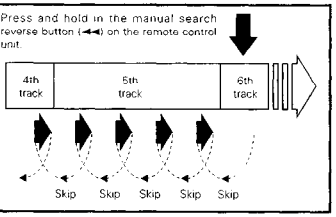
(1) Searching forward

1 During playback, press and hold in the manual search forward button (►►) on the remote control unit.
- Normal playback resumes from the point at which the button is released.
- Playback stops if the end of the last track on the disc is reached while pressing the manual search forward button (►►) on the remote control unit.



(2) Searching backward

2 During playback, press and hold in the manual search reverse button (◄◄) on the remote control unit.
- Normal playback resumes from the point at which the button is released.
- Manual search stops and playback starts if the beginning of the first track on the disc is reached while pressing the manual search reverse button (◄◄) on the remote control unit.

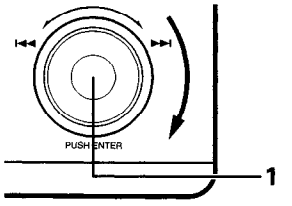


NOTE:
- There may be a slight break in the sound when returning to normal playback from the manual search mode.

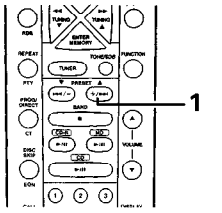
3. Finding the beginnings of tracks during playback ..... Automatic Search

(1) Moving ahead to the beginning of the next track

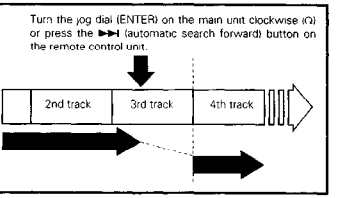
(Main unit)



(Remote control unit)

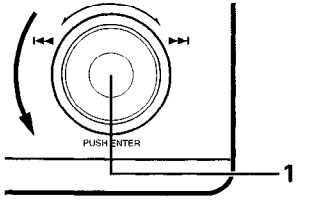


1 Either turn the jog dial (ENTER) on the main unit clockwise (Ω) or press the ►►I (automatic search forward) button on the remote control unit.
- During the search operation, turn the jog dial (ENTER) on the main unit clockwise (Ω) again or press the ►►I (automatic search forward) button on the remote control unit again to move further on to the beginning of the following track.

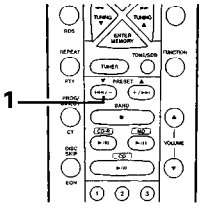

Turn the jog dial (ENTER) on the main unit clockwise (Ω) or press the ►►I (automatic search forward) button on the remote control unit.
2nd track
3rd track
4th track

(2) Moving back to the beginning of the current track

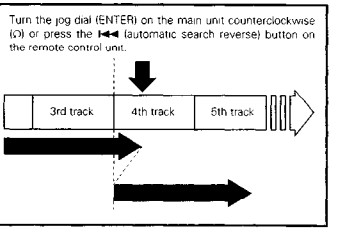
(Main unit)



(Remote control unit)

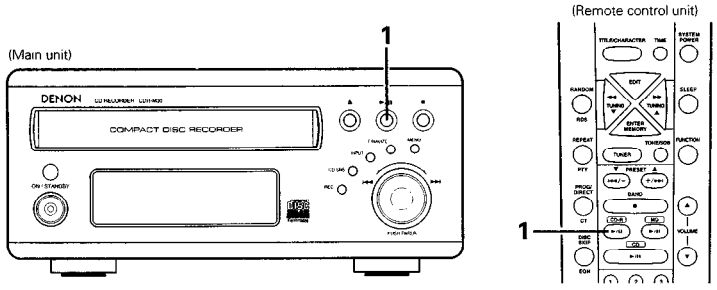


1 Either turn the jog dial (ENTER) on the main unit counterclockwise (Ω) or press the I◄◄ (automatic search reverse) button on the remote control unit.
- During the search operation, turn the jog dial (ENTER) on the main unit counterclockwise (Ω) again or press the I◄◄ (automatic search reverse) button on the remote control unit again to move further back to the beginning of previous track.


Turn the jog dial (ENTER) on the main unit counterclockwise (Ω) or press the I◄◄ (automatic search reverse) button on the remote control unit.
3rd track
4th track
5th track

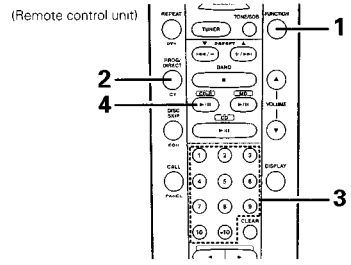
4. Stopping playback temporarily ..... Pause

- Use this function to stop playback temporarily then resume from the same point



1	During playback, press the ▶/II (play/pause) button. • The pause mode is set. • Press the play button to resume playback from the point at which the pause mode was set.	Press the ▶/II button. 4th track 5th track 6th track (Pause) Press the ▶/II button.

5. Playing tracks in a certain order (remote control unit only) ..... Programmed Playback



- Use this function to select certain tracks from the disc and program them to play in a certain order.
- Up to 30 tracks can be programmed.

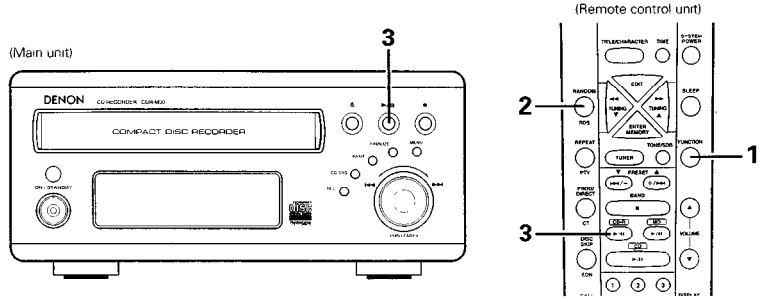
1	Press the function button and select CD-R.
2	In the stop mode, press the PROG/DIRECT button. • The "PROG" indicator lights.
3	Use the number buttons and the +10 button to select the tracks for programmed playback. • For example, to program the 3rd, 12th and 7th tracks, press 3, +10, 2 and 7.
4	Press the ▶/II (play/pause) button. • The tracks are played in the programmed order.

- To check the contents of the program, press the CALL button. The programmed tracks appear in the programmed order on the display each time the CALL button is pressed.
- To change the program, press the CLEAR button while in the stop mode, then program the desired track. The last programmed track is replaced with the newly input track.
- To clear the entire program, press the PROG/DIRECT or ⏏ button while in the stop mode.

NOTES:
- The single track repeat mode cannot be set during program playback.
- Programs with total playing times of over 99 minutes can be set, but the time will not be displayed properly.
- Programmed playback is not possible with non-finalized discs.

6. Playing in random order (remote control unit only) ..... Random Playback

- Use this function to play all the tracks on the disc once in random order.

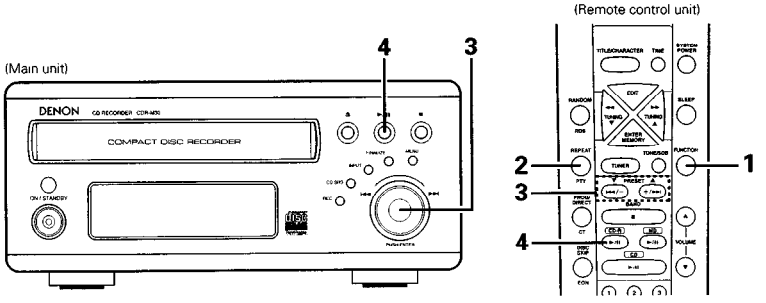


1	Press the function button and select CD-R.
2	In the stop mode, press the RANDOM button. • The "RANDOM" indicator lights.
3	Press the ▶/II (play/pause) button. • During normal playback: Tracks are automatically played in random order. • During the all-track repeat mode: All the tracks are played once in random order, then repeated in another random order.
• To cancel the random play mode, in the stop mode, press the RANDOM button again.	

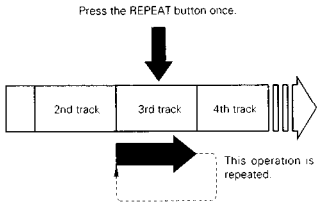
NOTES:
- The single track repeat mode cannot be set during random playback.
- Random playback is not possible with non-finalized discs.

7. Playing repeatedly (remote control unit only) ..... Repeat Playback

(1) Playing a single track repeatedly [Single Track Repeat]

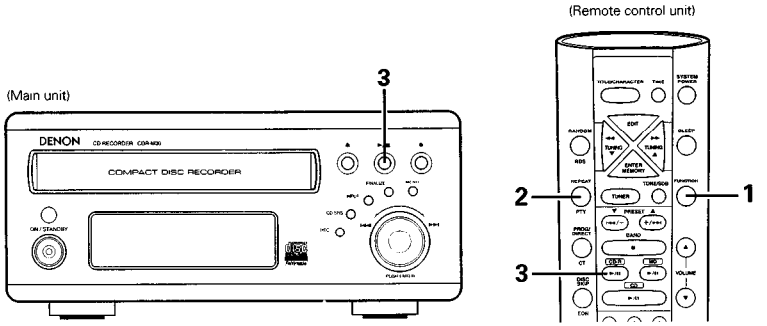


1	Press the function button and select CD-R.
2	Press the REPEAT button once. • The " RPT 1 " indicators light on the display and the single track repeat mode is set.
3	Either turn the jog dial (ENTER) on the main unit or use the automatic search buttons (⏮ and ⏭) on the remote control unit to select the track to be played repeatedly.
4	Press the ▶/II (play/pause) button. • Playback starts. • Once the selected track ends, it is played again from the beginning. • The single track repeat mode can also be set by pressing the REPEAT button during playback. The current track is played repeatedly.



• To cancel the single track repeat mode, press the REPEAT button repeatedly until the "RPT" indicator turns off.

(2) Playing all tracks repeatedly [All Track Repeat]



1	Press the function button and select CD-R.
2	Press the REPEAT button twice. • The " RPT ALL " indicators light on the display and the all track repeat mode is set.
3	Press the ▶/II (play/pause) button. • The disc is played repeatedly. • The all track repeat mode can also be set by pressing the REPEAT button twice during playback. • If the REPEAT button is pressed during programmed playback, the tracks are played repeatedly in the programmed order.

• To cancel the all track repeat mode, press the REPEAT button repeatedly until the "RPT" indicator turns off.

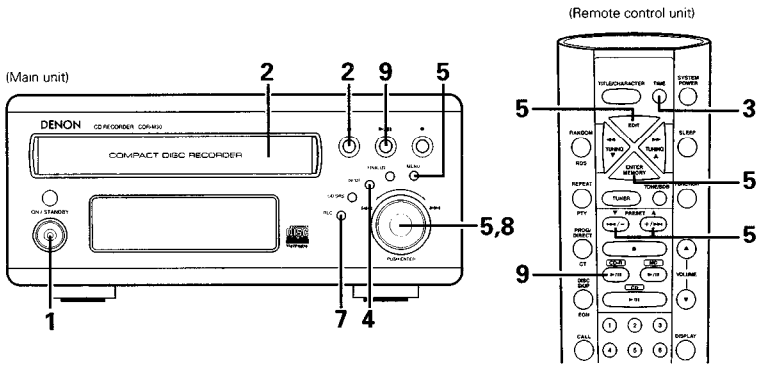
NOTES:
- The single track repeat mode cannot be set during programmed playback or random playback.
- Repeat playback is not possible with non-finalized discs.

11 RECORDING

- When recording on an already recorded disc, recording automatically starts from the end of the section last recorded. When doing so, pay attention to the remaining time.
- To assure accurate recording, record with an ambient temperature of 35°C or less.
- Recording may stop if the unit is subject to shocks during recording. If recording stops, it may no longer be possible to use the disc normally.

1. Starting recording (Manual Recording)

(1) Analog recording

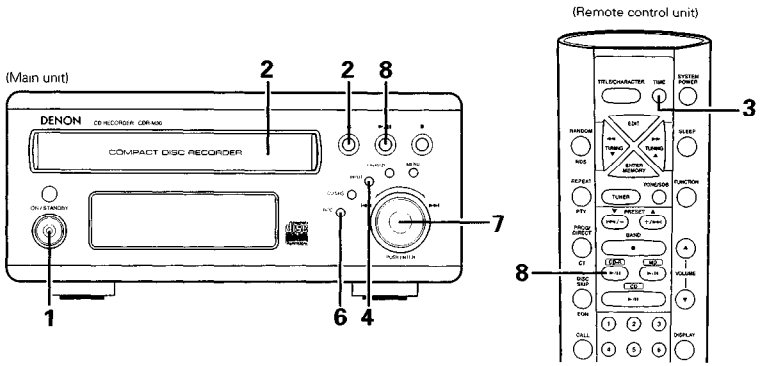


1	Turn on the power.
2	Load the CD-R/RW disc that is to be recorded.
3	When using an already recorded Disc, press the TIME button to check the recordable time. • The time display switches between the total recorded time and the recordable time each time the TIME button is pressed.
4	Press the INPUT button and select the analog source. • The "Analog" display will light.
5	Select On/Off of the Auto Track Marking function. • ATM Function On The "ATM" display will light. When a blank portion (of about 3 seconds or greater) of the recording input signal is detected, the track number is automatically associated and recorded. • ATM Function Off This is recorded as the following track. Press the MENU button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the Analog A.T.M. mode. • "Analog A.T.M?" is displayed. Press the ENTER button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select On/Off of the A.T.M. function. • "A.T.M. On/Off" is displayed. Press the ENTER button. • The set ATM function will be stored in memory, but this data might be lost if the unit is not connected to a power source for 2 to 3 days.

6	Start playing the selection you want to record on the CD player, cassette deck, etc.
7	Press the REC button. • The recording standby mode is set.
8	Adjust the recording level with the jog dial. • Adjust the input level adjustment control so that the "OVER" indicator does not light even when the volume is loudest. After adjusting, set the source to be recorded to the standby mode. • The set recording level will be stored in memory, but this data might be lost if the unit is not connected to a power source for 2 to 3 days.
9	Press the ▶/II button. • Recording starts.
10	Start playing the selection you want to record on the CD player, cassette deck, etc.

(2) Digital recording

- This set includes a sampling rate converter.
  When recording DATs or satellite broadcasts (32 kHz or 48 kHz) whose digital input signal sampling frequency is different from that of CD (44.1 kHz), the sampling frequency is automatically converted to 44.1 kHz.

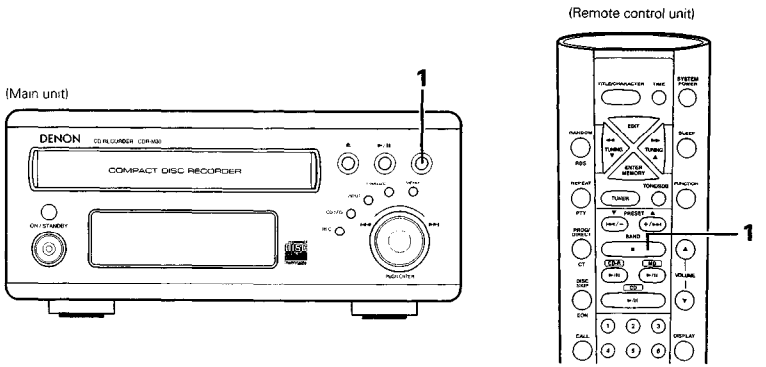


1	Turn on the power.
2	Load the CD-R/RW disc that is to be recorded.
3	When using an already recorded Disc, press the TIME button to check the recordable time. • The time display switches between the total recorded time and the recordable time each time the TIME button is pressed.
4	Press the INPUT button and set "Optical-1" or "Optical-2". • The indicator for the selected input source ("OPT 1" or "OPT 2") lights.
5	Start playing the selection you want to record on the CD player, MD recorder, etc.
6	Press the REC button. • The recording pause mode is set. • If the "OPT 1" or "OPT 2" indicator is flashing, check the connections to the digital input jacks
7	Adjust the recording level with the jog dial. • Adjust the input level adjustment control so that the "OVER" indicator does not light even when the volume is loudest. After adjusting, set the source to be recorded to the standby mode. • The set recording level will be stored in memory, but this data might be lost if the unit is not connected to a power source for 2 to 3 days.
8	Press the ►/II button. • Recording starts.
9	Play the selection to be recorded on the CD player, MD recorder, etc.

NOTES:

- When you do not wish to change the digital recording level, set the jog dial so that "D.Level 00dB" is displayed. The recording will be made without changing the input signal level.
- The recording level can be adjusted over a range of – ∞ to +12 dB for analog input recording and from – ∞ to 0 dB for digital input recording. Note that the displayed setting values may include a degree of error in terms of calculation processing.
- When the recording level is – ∞, "D.Level---dB" is displayed and audio is not output.

2. Stopping recording

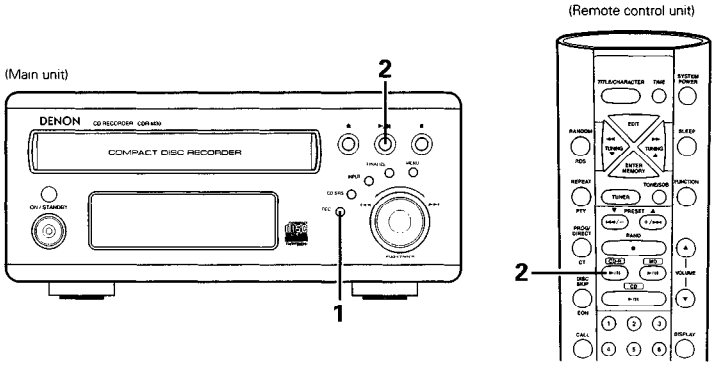


1	During recording, press the ■ button. • The stop mode is set automatically once the end of the recordable time is reached.

NOTES:

- When performing digital recording of CDs or MiniDiscs or DATs, the track numbers are recorded automatically. (See Page 5.)
- When recording digital sources other than CDs or MiniDiscs or DATs, track numbers are automatically added when blank sections are detected. (See Page 5.)
- During digital recording from CDs or MiniDiscs or DATs, the track number may not change if the same track is programmed twice in a row or if the single track repeat mode is set.
- It is not possible to make digital recordings of Discs which have already been recorded digitally. The CDR-M30 includes a serial copy management system. This system limits reproduction of digital signals on digital audio devices to "one generation". Use analog recording to record Discs originally recorded digitally.
- The is for use in private homes and may not operate properly if used (to record, etc.) in combination with professional equipment or other devices not designed for use in private homes.
- To eject the Disc if the "Copy Prohibit" or "Dig.Unlock" message is displayed during digital recording and the recording pause mode is set, first press the ■ button, then press the ▲ button to eject the Disc.
- A blank section of approximately 2 seconds is inserted before recording starts.

12 VARIOUS RECORDING FUNCTIONS

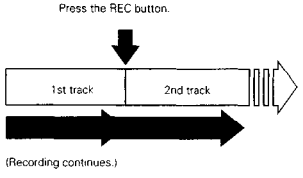


1. Adding track numbers during recording

- Track numbers can be added during recording regardless of the recording mode.

1

During recording, press the REC button.
- When the REC button is pressed during recording, a track number is added at that point.
- A new track number cannot be added for approximately 4 seconds after the last track number.

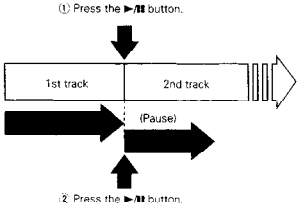


2. Stopping recording temporarily

- Recording can be stopped temporarily then resumed from the same point.

2

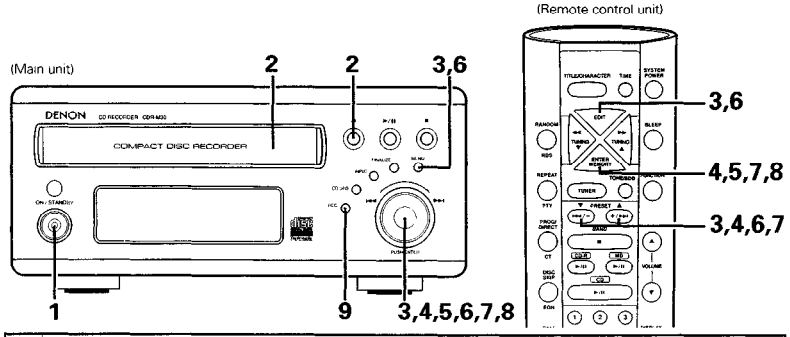
During recording, press the ▶/II button.
- When the ▶/II button is pressed during recording, the pause mode is set at that point and the track number changes.
- Press the ▶/II button to resume recording.



- A blank section of approximately 2 seconds is inserted before recording resumes.

3. Synchronized recording of the disc (DISC SYNCHRO)

- This mode is used when recording all the tracks of the CD or MD on the playback side.
- This mode is disabled when system connections are made. See "SYSTEM FUNCTIONS" (pages 21 and 22).

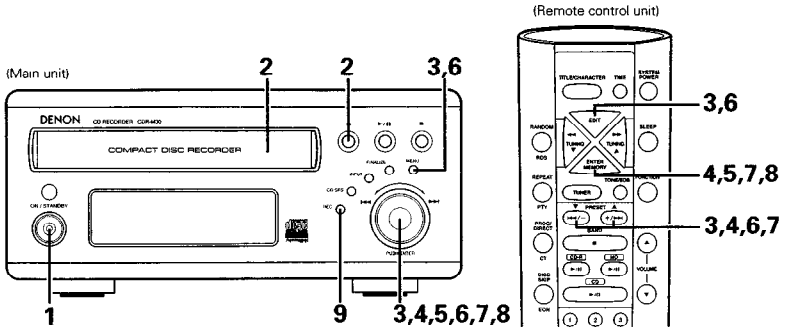


1	Switch on the power.
2	Load the CD-RW disc that is to be erased.
3	Press the MENU button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the synchronized recording mode. • "Sync Rec Set?" is displayed.
4	Press the ENTER button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the Disc synchro mode. • "Dir/Disc Thr" is displayed.
5	Press the ENTER button. • The "SYNC" indication will light.
6	For analog recording, set the synchro level at this point. Press the MENU button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the synchronized recording level set mode. • "Ana.Sync.Lev?" is displayed.
7	Press the ENTER button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the synchronized recording level. • "S.Level:-48dB" is displayed. ✻(A synchronized recording level of -48 dB means that recording starts automatically on the CD Recorder when playback signals of -48 dB or greater are detected after a blank section of 3 seconds or more in the playback signals input from an external component.)
8	Press the ENTER button. • "Complete" is displayed. • The synchronized recording level is set.
9	Press the REC button. • This sets the record-pause mode and displays "Disc Synchro"
10	Use a CD player, cassette deck or other source to play the tracks that you wish to record. • Recording will start automatically.

- To stop synchro recording, press the ■ button.
- Recording stops if there is no sound for 10 consecutive seconds.

4. Synchronized recording of a single track (1Tr SYNCHRO)

- This mode is used to record only one track.
- This mode is disabled when system connections are made. See "SYSTEM FUNCTIONS" (pages 21 and 22).

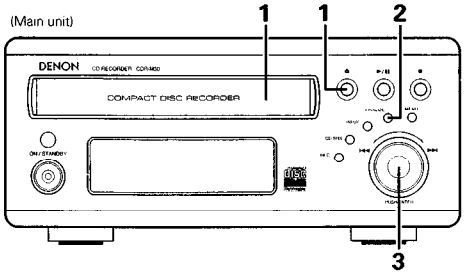


1	Switch on the power.
2	Load the CD-RW disc that is to be erased.
3	Press the MENU button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the synchronized recording mode. • "Sync Rec Set?" is displayed.
4	Press the ENTER button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the one-track synchro mode. • "Off:Disc 1Tr" is displayed.
5	Press the ENTER button. • The "1TR SYNC" indication will light.
6	For analog recording, set the synchro level at this point. Press the MENU button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the synchronized recording level set mode. • "Ana.Sync.Lev?" is displayed.
7	Now, press the ENTER button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the synchronized recording level. • "S.Level:-48dB" is displayed. *(A synchronized recording level of -48 dB means that recording starts automatically on the CD Recorder when playback signals of -48 dB or greater are detected after a blank section of 3 seconds or more in the playback signals input from an external component.)
8	Press the ENTER button. • "Complete" is displayed. • The synchronized recording level is set.
9	Press the REC button. • This sets the record-pause mode and displays "1Tr Synchro"
10	Use a CD player, cassette deck or other source to play the tracks that you wish to record. • Recording will start automatically.

- To stop synchro recording, press the ■ button.
- If the set detects that there is no sound for 3 seconds or more, recording stops when the next track starts. Recording also stops if there is no sound for 10 consecutive seconds.

13 FINALIZING CD-R/RW DISC

★ Finalizing is a simple procedure, necessary to:
- Be able to play recordings on a CD player,
- Avoid further unwanted recordings on a disc,
- Avoid erasure of tracks on a CD-RW.



1	Load the CD-R/RW disc that is to be finalized.
2	With the recorder stopped press the FINALIZE button. • "Finalize OK?" is displayed.
3	Press the ENTER button. • The display counts down through the finalization. • On completion, the total number of tracks and the total time recorded appears on the display. • The disc indication of the display will become "CD"

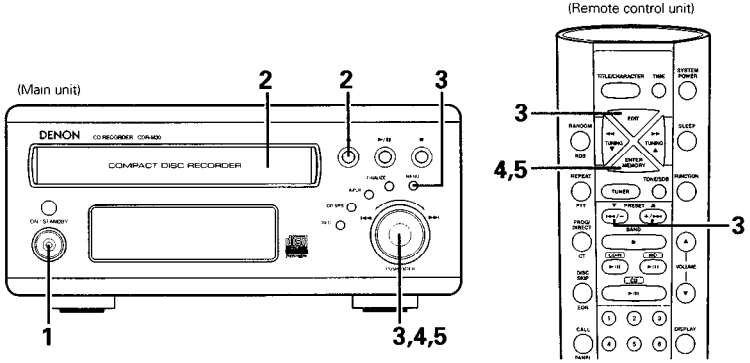
NOTES:
- Make sure the disc is absolutely free of scratches and dust particles.
- Finalizing will take at least 2 - 4 minutes.
- During finalization, the CD recorder accepts no operating commands.
- Text data is written to the disc when the disc is finalized. If you want to enter text, this must be done prior to finalizing.
- For information about cancelling CD-RW finalizing, see "Cancellation of CD-RW Disc Finalizing (i.e., Unfinalizing)" on Page 17.
- CD-RW discs cannot be played with the UD M30/M50.

14 EDITING

1. CD-R/RW editing

(1) Cancellation of CD-RW disc finalizing (i.e., Unfinalizing)

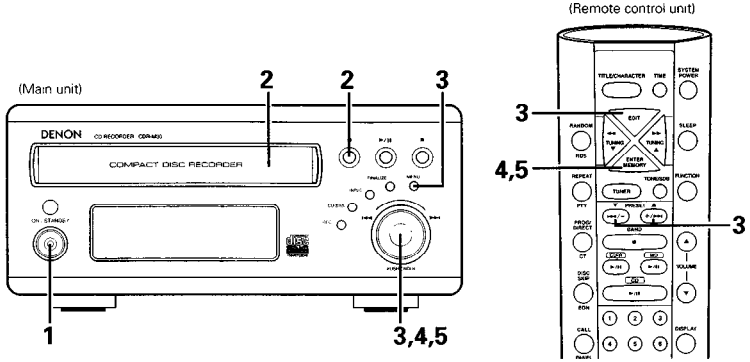
- This operation is valid only for CD-RW discs. Finalizing cannot be cancelled from CD-R discs.
- Use this operation to cancel finalizing when adding further recording to a finalized CD-RW disc and when erasing recorded tracks.



1	Switch on the power.
2	Load the CD-RW disc for which finalizing is to be cancelled.
3	Press the MENU button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the unfinalizing mode. • "UnFinalize?" is displayed.
4	Press the ENTER button. • "TOC Er. OK?" is displayed.
5	Press the ENTER button again. • The unfinalize processing remaining time is displayed. • When unfinalizing is completed, the disc type display will be "CD-RW"

(2) Erasing all the tracks

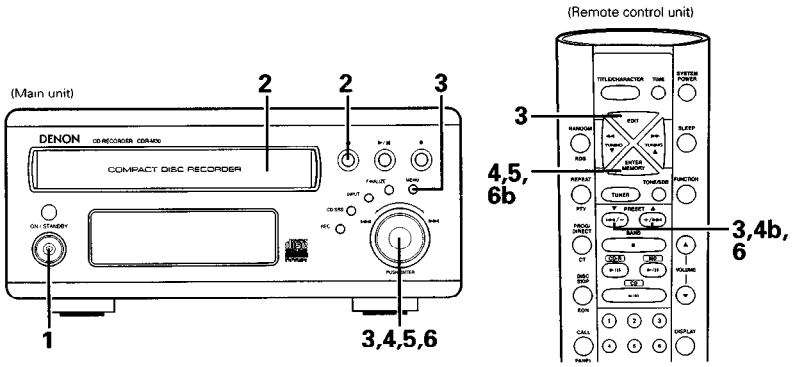
- This operation is valid only for CD-RW discs.
- Use this operation to cancel finalizing when adding further recording to a finalized CD-RW disc and when erasing recorded tracks.



1	Switch on the power.
2	Load the CD-RW disc that is to be erased.
3	Press the MENU button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the all Erasing mode. • "All Erase?" is displayed.
4	Press the ENTER button. • "All Erase OK?" is displayed.
5	Press the ENTER button again. • "All Erasing" display is flashing. • When erasing is completed, the time display will be "Blank Disc"

(3) Erasing one or more tracks away from the last track

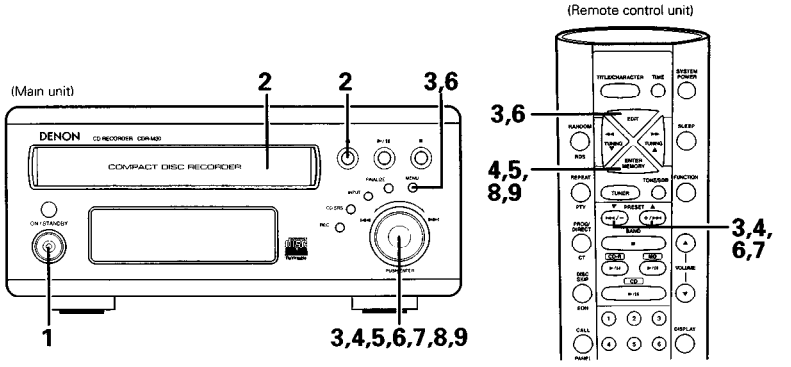
- When erasing a finalized CD-RW disc, first unfinalize the disc.



1	Switch on the power.
2	Load the CD-RW disc that is to be erased.
3a	To erase the last track. Press the MENU button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the one-track erase mode. • "LastTr Erase?" is displayed.
4a	Press the ENTER button. • "Tr Erase OK?" is displayed.
5a	Press the ENTER button. • "Last Erasing" display is flashing. • On completion, the total number of tracks and the total time recorded appears on the display.
3b	To erase several tracks starting from the last track. Press the MENU button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the multi-track erase mode. • "MultiTrErase?" is displayed.
4b	Press the ENTER button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the tracks to be erased. • "**Tr- Erase?" is displayed.
5b	Press the ENTER button. • "MultiEraseOK?" is displayed.
6b	Press the ENTER button. • "Multi Erasing" display is flashing. • On completion, the total number of tracks and the total time recorded appears on the display.

(4) Registration of the tracks to which you do not wish to listen

- Tracks to which you do not wish to listen, such as those containing recording errors, can be set so that they will be skipped over during play.

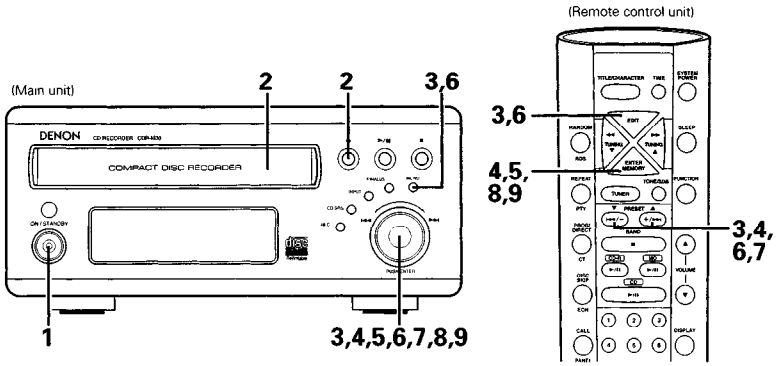


1	Switch on the power.
2	Load the CD-RW disc that contains tracks that you would like to skip in playback.
3	Press the MENU button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the skip play mode. • "Skip Play?" is displayed.
4	Press the ENTER button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the skip play on mode. • "Skip On/Off" is displayed.
5	Press the ENTER button. • "Skip Play On" is displayed.
6	Turn the jog dial of the main unit or press the automatic search button of the remote control, and select the tracks you want to skip. Press the MENU button.
7	Turn the jog dial of the main unit or press the automatic search button of the remote control, and select the skip track setting mode. • "Skip Set?" is displayed.
8	Press the ENTER button. • "Skip Set OK?" is displayed.
9	Press the ENTER button. • "Now PMA Rec" is displayed and the registration is completed.

NOTES:

- Finalizing the disc when tracks to which you do not want to listen have been registered, results in the skip play mode automatically being switched on.
- Skip play is not possible on CD players that lack a skip play function.
- There is no skip function on the UD-M30/M50.
- The "SKIP" indication lights when a skip track is selected and skip play is turned on.
- Tracks to which you do not want to listen can be registered 21 times.

(5) Cancelling the registration of tracks to which you do not wish to listen

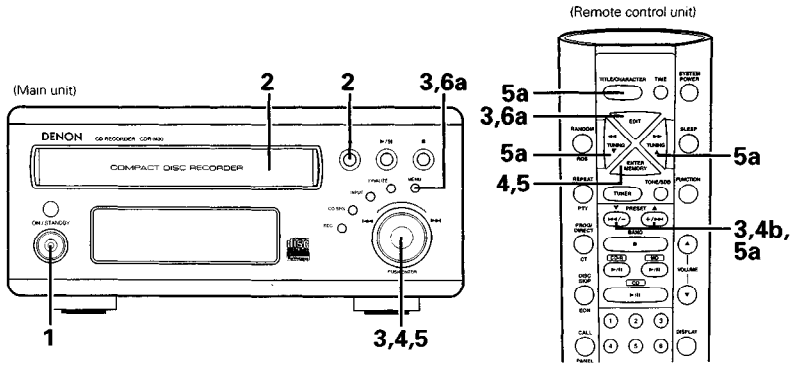


1	Switch on the power.
2	Load the CD-RW disc for which you want to cancel the settings of undesired tracks.
3	Press the MENU button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the skip play mode. • "Skip Play?" is displayed.
4	Press the ENTER button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the skip play off mode. • "Skip On/Off" is displayed.
5	Press the ENTER button. • "Skip Play Off" is displayed.
6	Turn the jog dial of the main unit or press the automatic search button of the remote control, and select the track you want to cancel. Press the MENU button and set.
7	Turn the jog dial of the main unit or press the automatic search button of the remote control, and select the skip track setting cancellation mode. • "Skip Clear?" is displayed.
8	Press the ENTER button. • "SkipClear OK?" is displayed.
9	Press the ENTER button. • "Now PMA Rec" is displayed and the registration is completed.

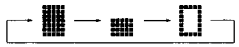
2. Text edittings

■ Up to 23 characters can be input for the track and disc titles.

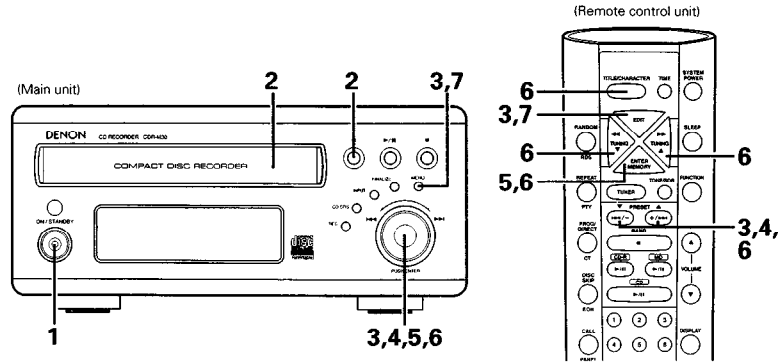
(1) Adding disc titles



1	Switch on the power.
2	Load the CD-R/RW disc to which the disc name will be affixed.
3a	Press the MENU button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the Disc name mode. • "Disc Name In?" is displayed.
4a	Press the ENTER button. • The cursor flashes, indicating the title input standby mode.

5a	Input the title. • Either turn the jog dial (ENTER) on the main unit or use the automatic search buttons (I◄◄ and ►►I) on the remote control unit to select the desired character. • The shape of the cursor changes each time the TITLE/CHARACTER button is pressed.  [Explanation of cursor:] ▀ ..... Capital letter/number input mode ▀ ..... Small letter/number input mode □ ..... Special character input mode [Available characters and numbers] Capital letter/number input mode: ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789 Small letter/number input mode: abcdefghijklmnopqrstuvwxyz0123456789 Special character input mode: SPACE _ ! " # $ % & ' ( ) * + , - . / : ; < = > ? @ [¥] ^ _ ` { | } ~ • When the manual search forward button (►►) or the ENTER button is pressed, the selected character is set, and the unit is set to the input standby mode for the next character. • The cursor can be moved back by pressing the manual search reverse button (◄◄). Use this to correct input characters.
6a	Press the MENU button of the main unit or the EDIT button of the remote control and set the disc name that has been entered.
	• To erase a character, move the cursor to that character then press the CLEAR button. • To correct a character, first erase it, then input the correct character.
3b	Disc names can be given easily using the preset name function. Press the MENU button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the preset name mode. • "Preset Na In?" is displayed.
4b	Press the ENTER button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the disc name.
5b	Press the ENTER button of the main unit or the EDIT button of the remote control and set the disc name that has been entered.

(2) Adding track titles



1	Switch on the power.
2	Load the CD-R/RW disc to which the track name will be affixed.
3	Turn the jog dial of the main unit or press the automatic search button of the remote control, and select the tracks you want adding track title.
4	Turn the jog dial of the main unit or press the automatic search button of the remote control to display "In Name In?"
5	Press the ENTER button. • The cursor flashes, indicating the title input standby mode.
6	Input the title • For instructions on inputting titles, see step 5a under "Adding disc titles" on Page 20.
7	Press the MENU button of the main unit or the EDIT button of the remote control and set the disc name that has been entered.

NOTES:
- Text editing is not possible with commercial audio CDs or with finalized CD-R/RW discs.
- A maximum of 23 characters can be stored per item.
  Approximately 900 characters can be input per disc.
- Erasure of text is not possible with commercial audio CDs or with finalized CD-R-RW discs.
- Entered text information is not written to the disc until the disc is finalized.
- Even when the power source is disconnected, the text information is stored for 2 to 3 days after being entered when the disc has not been finalized. This text information might be lost if the unit is disconnected from the power source for a long time.

(3) Erasing disc titles

1	Press the MENU button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the disc name erase mode. • "Disc N.Erase?" is displayed.
2	Press the ENTER button. • "Name EraseOK?" is displayed.
3	Press the ENTER button to define the erasure of the disc name. • "Complete" is displayed.

(4) Erasing track title

1	Turn the jog dial of the main unit or press the automatic search button of the remote control, and select the track for which the track name will be erased. Press the MENU button.
2	Turn the jog dial of the main unit or press the automatic search button of the remote control, and select the track name erase mode. • "TrName Erase?" is displayed.
3	Press the ENTER button again. • "Name EraseOK?" is displayed.
4	Press the ENTER button to define the erasure of the track name. • "Complete" is displayed.

(5) Erasing disc titles and all track titles

1	Press the MENU button, turn the jog dial of the main unit or press the automatic search button of the remote control, and select the all name erase mode. • "All N. Erase?" is displayed.
2	Press the ENTER button. • "Name EraseOK?" is displayed.
3	Press the ENTER button to define the one erasure. • "Complete" is displayed.

15 SYSTEM FUNCTIONS

Connecting the CDR-M30 to other units in the D-M30/M50 series makes it even easier to use.

System Remote Control

- When using it with the D-M30/M50 series, it can be operated also with the remote control unit included with the CD receiver unit (UD-M30/M50).
- When the system is connected, the remote control signals of all units are received by the sensor on the CD receiver unit.

1. Auto on function

- When the ▶/II button of the remote control is pressed while the power is to the standby mode, the power automatically turns on and the play is performed.
  (The power does not turn on when the ▶/II button on the main unit is pressed.)

2. Synchronized recording function (when connected to the UD-M30/50 or DRR-M30)

(1) CD, Cassette tape → CD Recorder

Set the CDR-M30 to the recording pause mode, then press the play button on the CD receiver (UD-M30/M50) or cassette deck (DRR-M30).

- Recording starts automatically.

(2) CD Recorder → Cassette tape

Set the cassette deck (DRR-M30) to the recording pause mode, then press the play button on the CDR-M30.

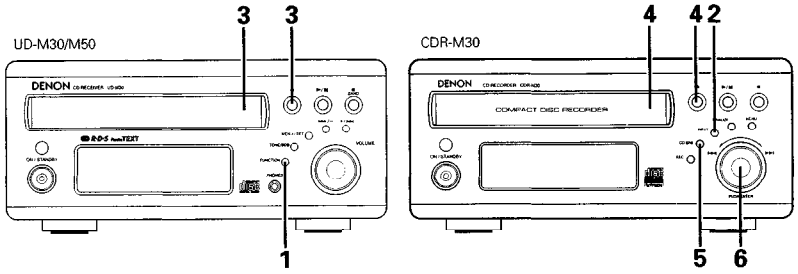
- Recording starts automatically.

NOTE:

- Recording stops if recording is no longer possible due to digital unlock or digital copy prohibit signals.

3. Synchronized recording of CDs (when connected to the UD-M30 or UD-M50)

CDs can be recorded easily.

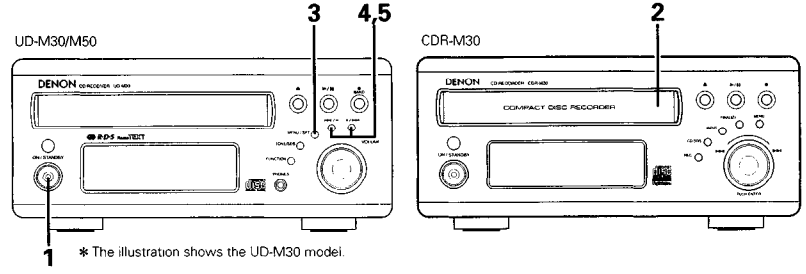


* The illustration shows the UD-M30 model.

1	Set the receiver function to CD.
2	Press the INPUT button and select the source to be recorded.
3	Load the CD in the UD-M30/M50.
4	Load the CD-R/RW that will be recorded.
5	Press the CD SRS button of this unit and select the synchro recording mode. • "SRS1disc Rec?" .....Records a whole CD • "SRS Make CD?" .....Records a whole CD and automatically finalizes. • "SRS1stTr Rec?" .....Records only one track of the CD
6	Press the ENTER button to automatically start the recording. • This unit and the CD will stop automatically when playback of the CD has ended, as well as when the disc has been fully recorded before the CD has finished playing.

- To stop recording, press the ■ button on the CDR-M30.
- If a button on the UD-M30/M50 is pressed in the SRS make CD mode, the recordings made up to that point are finalized.
- The CD SRS function will not work if the UD-M30/M50 is set to the program mode.

4. Playing a CD recorder with the timer (When connected to the UD-M30 or UD-M50)



* The illustration shows the UD-M30 model.

- To select and set the type of timer operations between following steps 3 and 4. Refer to "USING TIMER" in the UD-M30/M50's operating manual.

1	Press the Power operation switch on the CD receiver unit to turn on the system's power.
2	Load the Disc you want to play with the timer into the CDR-M30.
3	Press the MENU/SET button to display "TIMER"
4	Use the preset buttons (+ and –) to select the timer mode.
5	Use the preset buttons (+ and –) to select the CD receiver "CD-R" mode.
6	For subsequent operations, refer to "USING THE TIMER" in the UD-M30/M50 operating manual.

16 MESSAGES

Messages may appear on the display while using the CDR-M30. The meanings of these messages are explained below.

Message	Meaning
TOC Reading	Reading disc information.
Open	During tray opening.
Close	During tray closing.
No Disc	No disc inserted, disc unreadable or disc inserted upside down.
Not AudioDisc	Inserted disc is no audio CD.
Now PMA Rec	Updating disc contents.
Disc Full	No more recording possible.
PMA Full	No more recording and editing possible.
Copy Prohibit	No digital recording can be made of the connected source. See "Digital Copies" on Page 5.
Now OPC	During laser power calibration for unfinalized discs. (OPC = Optimum Power Calibration)
OPC Error	OPC failure during OPC procedure (OPC = Optimum Power Calibration)
Can't Rec	An error has occurred during recording.
Disc Error	Recording or finalization is not possible due to a disc fault.
Blank Disc	When attempting to edit text for a disc which has no tracks.
No Name	No text stored for disc.

Message	Meaning
Dig.Unlock	There is an incomplete connection of the digital input jack during digital input recording, or the input signal is not being input properly due to some other factor.
Name Full	23 text characters have already been input or a total of 900 characters have already been input.
Mecha Error	Disc is not operating properly.
All Skip Tr	Skip is set for all tracks.
Complete	Mode reception has been completed.

17 TROUBLESHOOTING

Check Again Before Assuming The Player Is Malfunctioning

- **Are all the connections correct ?**
- **Are you following the instructions in the manual ?**
- **Are the amplifier and speakers operating properly ?**

If the CDR-M30 does not seem to be functioning properly, check the table below. If this does not solve the problem, the CDR-M30 may be damaged. Turn off the power, unplug the power cord from the power outlet, and contact your store of purchase or nearest DENON sales office.

Symptom	Check	Page
No power.	• Ensure that the POWER button is on. • Ensure that the mains cable is plugged in correctly.	7 7
Auto track does not work.	• Check if auto track is selected. • Check if there are 3 seconds silence in between the tracks. • Check if the source is a consumer source with the digital output according to the IEC audio standard.	13 5 –
No sound.	• Check the audio connections. • If using an amplifier, try using a different source.	7 7
Amplifier sound is distorted.	• Check that the CD recorder analog output is not connected to the amplifier Phono input.	7
Play will not start.	• Ensure that the label of the CD is facing up. • Clean the disc.	5 6
Remote control does not work.	• Point the remote control directly at the CD recorder. • Check the batteries and replace if necessary.	8 8
Will not record.	• Clean the disc. • Check if CD-R is an unfinalized disc • Check that the disc is recordable and replace if necessary. • Check whether there is time remaining on the disc. ("Disc Full" is displayed.) • Check whether there is an attempt to digitally record a digitally recorded source. ("Copy Prohibit" is displayed.) • Check whether the recording level adjustment is suitable. • The disc is not an AUDIO disc ("Not Rec Disc" is displayed) • Wrong input source chosen. Input label flashing.	6 6, 16 5 6 5 13, 14 6 6
Recording is distorted.	• Make sure the recording level is correct.	13, 14
10 second pause between recordings.	• See synchronized recording.	15, 16
"Disc Error" on the display.	• If "Disc Error" then appears on the display, the disc cannot be recorded further, and cannot be finalized. But it can still be played on the CD recorder or another CD recorder.	–
A recorded CD-R disc cannot be played on another player.	• Finalize the disc. • Is playback possible on another CD player? If so, clean the pickup of the player on which the disc could not be played. • CD-R discs cannot be played on some CD players.	6, 16 – –

18 MAIN SPECIFICATIONS

- **DISCS** — CD-DA (Compact Disc-Digital Audio) format
CD-R Discs for Audio consumer use
CD-RW Discs for Audio consumer use
- **SIGNAL FORMAT**
  - **Sampling frequency:** 44.1 kHz
  - **Quantization bits:** 16 bits linear/channel
- **GENERAL CHARACTERISTICS**
  - **Power Supply:** U.S.A., and Canada: AC 120 V, 60 Hz
European and U.K.models: AC 230 V, 50 Hz
  - **Power consumption:** 15 W
  - **Dimensions:** 210 (W) x 95 (H) x 318 (D) mm (17-1/16" x 3-15/16" x 11-3/16")
(including feet controls and terminals)
  - **Weight:** 3.0 kg (9.921 lbs.)

* Design and specifications are subject to change without notice in the course of product improvement.

DENON SERVICE NETWORK/ 服務網絡

- **Please contact one of our overseas service centers, listed below, for follow-up service consultation.**
- **Wenden Sie sich für anfallende Wartungs-bzw. Reparaturarbeiten bitte an eine der folgend aufgeführten Kundendienststellen.**
- **Adressez-vous à nos centres de service d'outre-mer indiqués ci-dessous, pour le service après-vente.**
- **Per il servizio dopo vendita rivolgete Vi al nostro centro di servizio estero appropriato della lista seguente.**
- **Para consultas de servicio porfavor dirigirse a cualquiera de nuestros centros de servicio en el extranjero, enlistados abajo.**
- **Neem kontakt op met één van onze reparatie-inrichtingen in het buitenland, waarvan hier een lijst volgt, voor na-service.**
- **Ta kontakt med nedan angivna servicecentraler för rådfrågning om servicearbeten efter försäljningen.**
- **Favor contactar um de nossos centros de serviços internacionais, abaixo listados, para consulta de serviços de acompanhamento.**
- **請據下表所列本公司海外服務中心查詢售后服務事宜。**

Australia	Audio Products Australia Pty Ltd. 67 O'Riordan Street, Alexandria NSW 2015, Australia Tel: (02) 9669-3477 Fax: (02) 9578-0140
Austria	Digital-Professional-Audio Vertriebsges.m.b.H., 1170 Wien, Rupertusplatz 3 Tel: 0222-4501006~9, Fax: 0222-457679
Belgium	Transtel-Sabima P.V.B.A. Harmoniestraat 13, 2018 Antwerpen 1, België Tel: 03-237-3607
Canada	Denon Canada Inc. 17 Denison Street, Markham Ontario, Canada L3R 1B5 Tel: 905-475-4085 Fax: 905-475-4159
China	中國遠望機電技術發展中心（北京天龍特約維修中心）北京東直門內大街92號 郵編：100007 電話：（10）64015151/64023798 傳真：（10）64034229 天龍音響上海特約技術維修服務中心 上海金沙江路253號 郵編：200062 電話： 86-21-6257-9958 傳真：86-21-6260-5645
Czecho	EUROSTAR OSTORAVA s.r.o. areal Vodni stavby Praha a.s., budova A2 Dobronicka 635,148 00 Praha 4 Czech Rep. Tel: 02-6111-2901 Fax: 02-6111-2904
Denmark	Hifi Klubben A/S Dali Alle 1, 9610 Noerager, Denmark Tel: 45-96 72 10 00 Fax: 45-96 72 10 14
Finland	Suomen Hi-Fi Klubi OY Nylandsgatan 4-6, Helsingfors Tel: 0644401
France	Denon France S.A. 3 Boulevard Ney, 75018 Paris Tel: 44-89-68-69
F.R. Germany	Denon Electronic GmbH An der Landwehr 19, 41334 Nettetal Tel: +49 2157 12 08 78 Fax: +49 2157 12 08 13
Greece	KINOTECHNIKI LTD. 14, PYRGOU STR. 166 75, GLYFADA ATHENS Tel: (01)960-1071 Fax: (01)960-1072
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